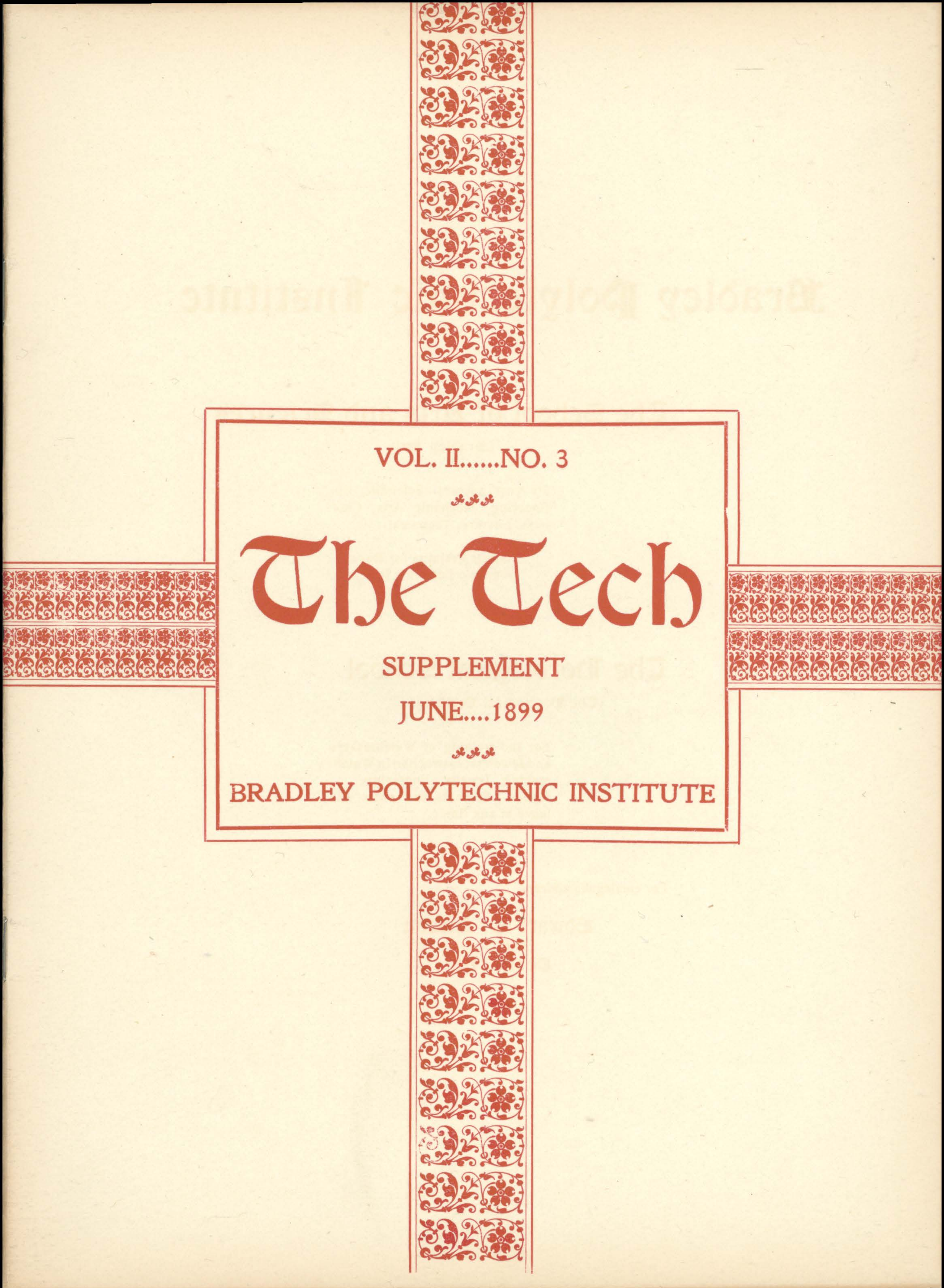

VOL. II......NO. 3

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The Tech

SUPPLEMENT

JUNE....1899

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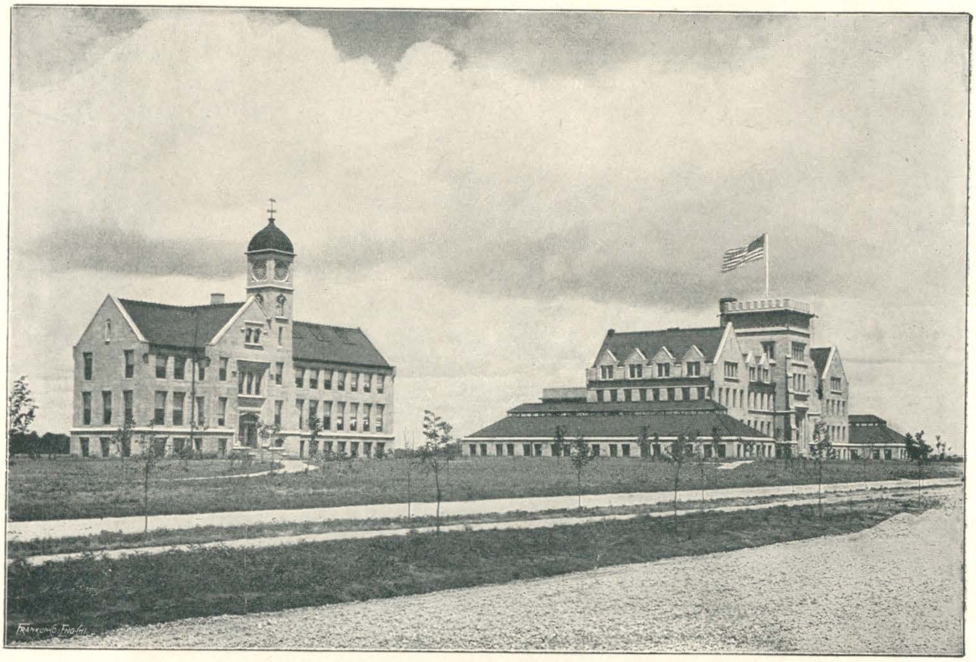
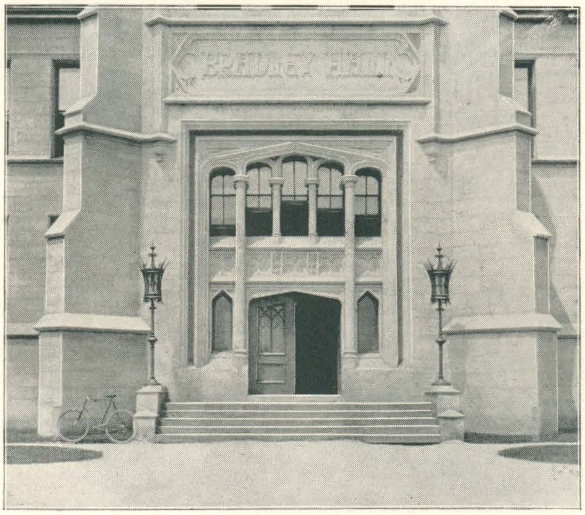
BRADLEY POLYTECHNIC INSTITUTE

Mrs. Lydia Bradley.
The Founder of the Institute.

Bradley Polytechnic Institute



The most convenient way of reaching the Institute is by the Main Street car line. The above **cut** shows the buildings as they appear to one entering the grounds from the terminus of the car line.



ENTRANCE.

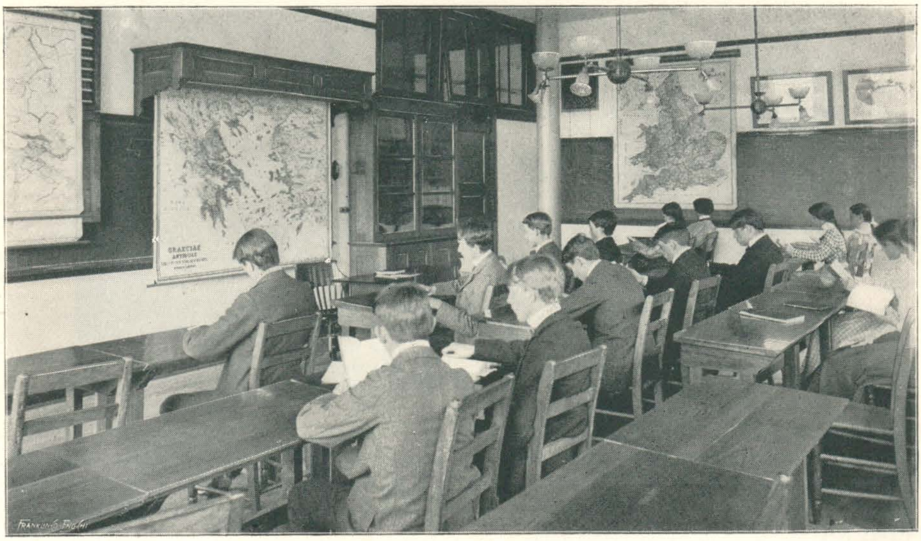
OFFICE OF THE DEAN OF WOMEN.

AUDITORIUM.

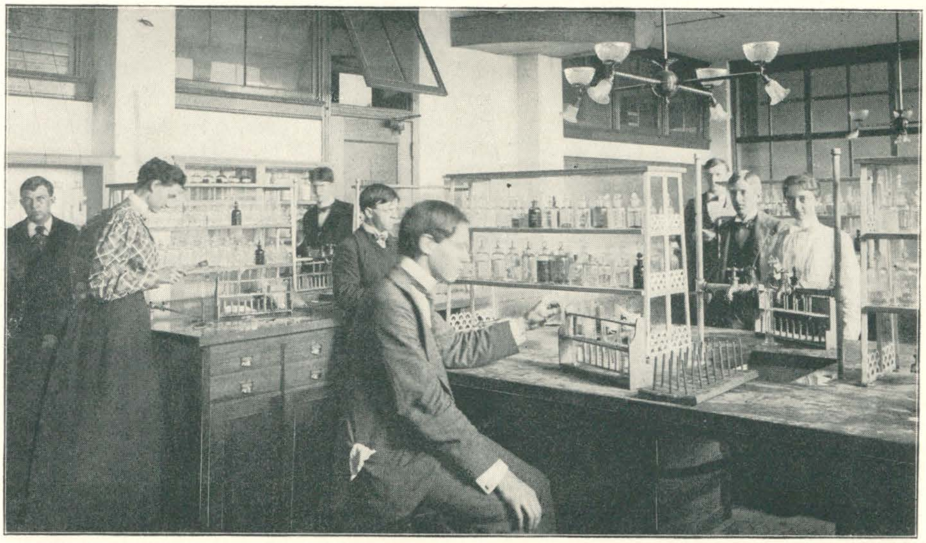
This room, beautiful in form and finish, and perfect in acoustics, is the pride of the Institute and already has many pleasant associations, both for members of the school and the people of Peoria. The seating accommodation is 832, and no less than 1,300 people occupied this room on the occasion of the opening exercises. One of its main features is the fine pipe organ which adds much to the chapel exercises and also to other occasions.

LIBRARY

This is not a general library but is used more for reference work. As such it is complete. Many books dealing with special subjects are kept in the class rooms for constant use. These are known as "department libraries."

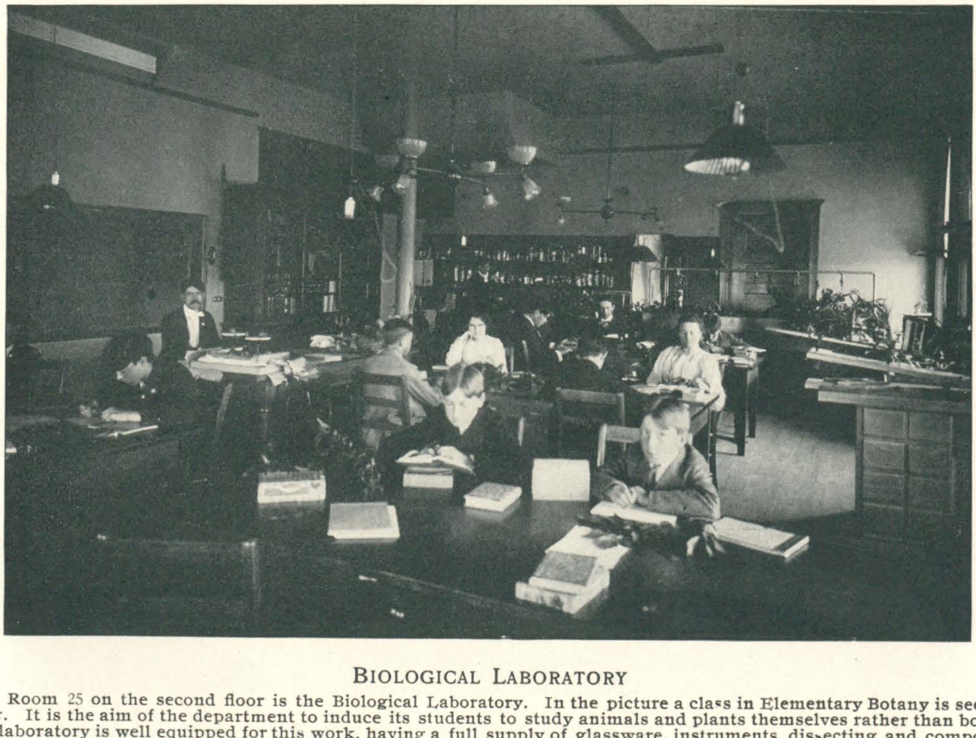


HISTORY CLASS ROOM



CHEMICAL LABORATORY.

This laboratory is thoroughly equipped with all appliances necessary for the prosecution of the highest grade of work. No laboratory is better equipped, from the standpoint of individual apparatus. Ventilating hoods, designed for carrying out experiments which give rise to noxious vapors and poisonous gases, are supplied with water, gas and electricity. Beside the laboratory are the large lecture and balance rooms. These are equipped with the best of everything needed.

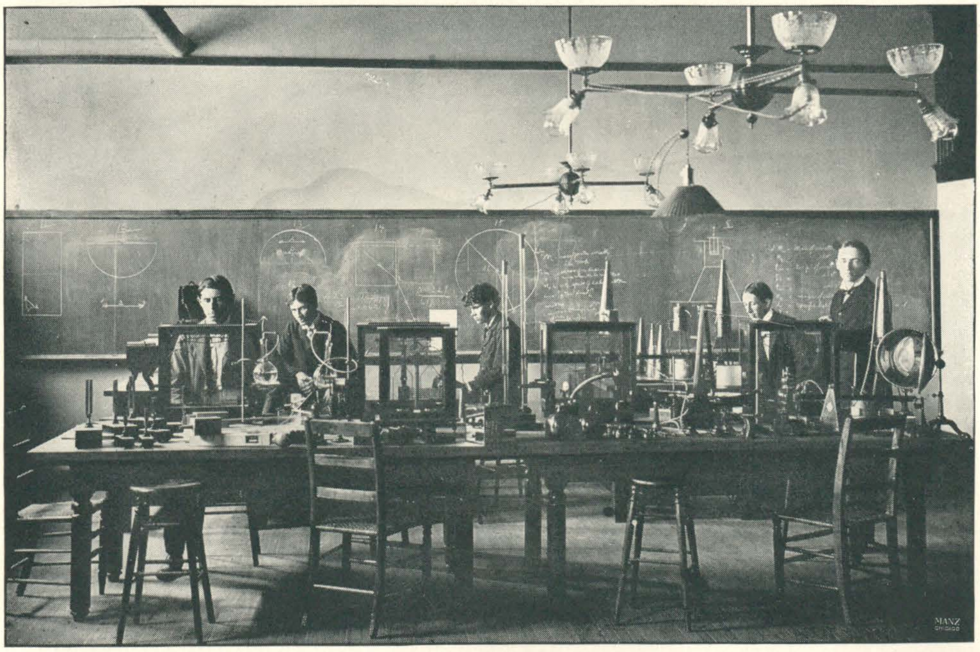


BIOLOGICAL LABORATORY

Room 25 on the second floor is the Biological Laboratory. In the picture a class in Elementary Botany is seen at work. It is the aim of the department to induce its students to study animals and plants themselves rather than books. The laboratory is well equipped for this work, having a full supply of glassware, instruments, dissecting and compound microscopes, etc. A recent notable addition is an electric stereopticon with microscope attachment, by which minute objects can be projected on a screen and seen by an entire class at once. The work of the department has increased to such an extent that a new laboratory for advanced Physiology is to be fitted out in Room 26 before the beginning of the next school year.

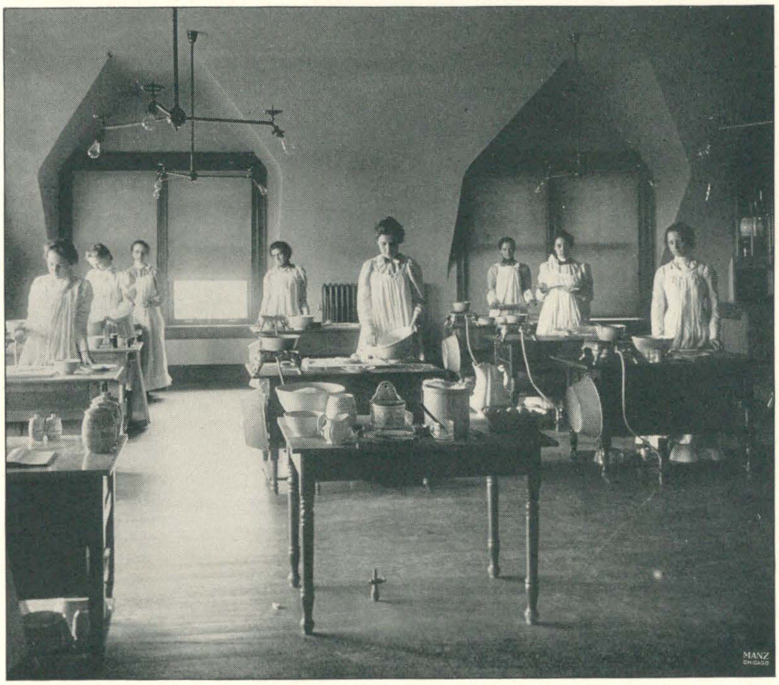
PHYSICAL LABORATORY.

It is here that students at Bradley become familiar with the instruments used in the subjects of mechanics, heat, light, electricity, etc., learning from actual experience what students in most schools must obtain from a text book. The laboratory is equipped with everything that is needed for thorough instruction in elementary and advanced courses.



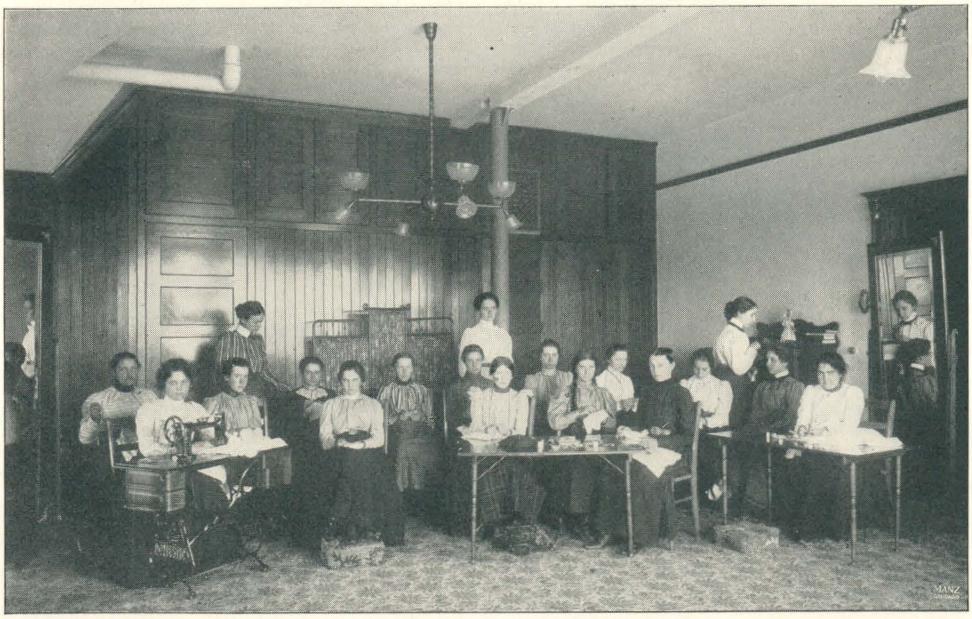
PHYSICAL APPARATUS—SOUND.

Every principle in the subject is carefully illustrated both in the lecture room and in the laboratory. Here we see some apparatus used in this work; it includes resonators from Berlin, spectrometers from Geneva, tuning forks from Paris, delicate balances from Amsterdam, sound apparatus from London, spectroscopes from Chicago, heat apparatus from Boston, and other pieces of apparatus too numerous to mention from nearly every large city in the world.



The Kitchen Laboratory is fitted up with individual desks which hold flour as well as the utensils needed in ordinary work. A small gas stove stands on every desk. Each girl spends one hour a day during her fourth year at the desk, and cooks some type of each class of food. The food prepared at the desks is used for the lunch which is served at the south end of the hall on this floor.

KITCHEN.



SEWING ROOM.

In the Sewing Room every girl spends one hour each day during the first two years of the course. She makes a set of "samples" which give her practice in hand sewing; then she cuts and makes a suit of garments for herself, finishing with a simple dress. Cutting and fitting of the dress is an essential part. They are given lectures on fabrics of various kinds, and learn to distinguish cloths of various qualities. Dress making is given after the two years of plain sewing and is elective.

DINING ROOM

The practice dining room is used for advanced classes. Here the girls prepare typical meals and learn to serve them properly. The duties of host and hostess, as well as that of waitress are pleasantly and rapidly learned, while the cost of each meal as prepared is carefully estimated. Refreshments for parties and receptions are planned and this room gives an opportunity for practice in many kinds of entertaining.

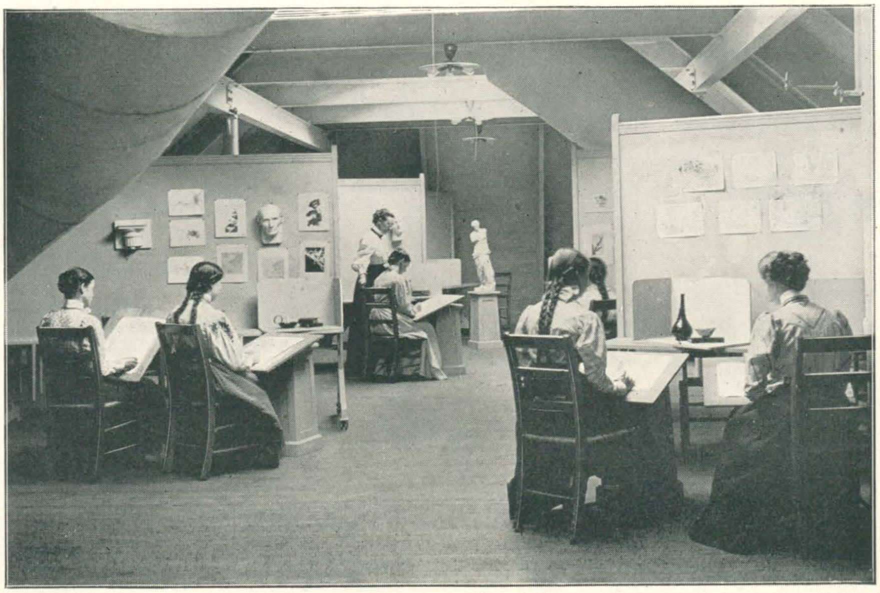
LUNCH ROOM

Every student who brings his lunch comes here and eats at a table on which is a tablecloth, pitcher of water and glasses. If he wishes to do so he buys a cup of hot cocoa or some dish of hot food to eat with his own lunch. Those who bring no lunch buy what they wish, finding some selection in the food they can buy at the door of the lunch room.

The Deparment of Manual Arts

Occupies the two wing-extentions and the fourth floor of Bradley Hall. The south wing contains the two shops for wood working and the north wing the two metal working. Opening out of each shop at one end is a stock and tool room, and at one side is another intended for a wash room. Two of these are already fitted up with enameled iron basins, a third is used temporarily as a foundry, and the fourth as the office of the department. As the character of the work done in the Manual Arts depends so much upon the character of the equipment provided, the greatest care has been taken in selecting tools and machinery. The purpose has been to procure only those which are most perfectly adapted to the peculiar needs of the school. To this end no selections were made until the equipments of the most noted schools in the country had been examined and the scope of the work in each of the Institute work-rooms had been determined. When this had been done the latest designs of the standard makes were purchased. Every tool is full-sized and equal to the best used by tradesmen. There are no second grade or so called "tools for amateurs" in the Institute equipment.

As it is important to have good tools so it is important to have suitable places in which to keep them and in which to keep stock, supplies and unfinished work. On this account no work-room equipment is considered complete that does not provide a "place for everything." The method for providing such places in the shops of Bradley Institute is to place in each shop a pigeon-hole case for unfinished work and as many more in the stock room connected with the shop as are necessary for screws, nails, stock, drawings, etc. These cases have been designed for the particular places they occupy and have been built by cabinet makers. They represent, therefore, as high a grade of workmanship as do the small tools and machinery constituting the main part of the equipment.



FREE HAND DRAWING

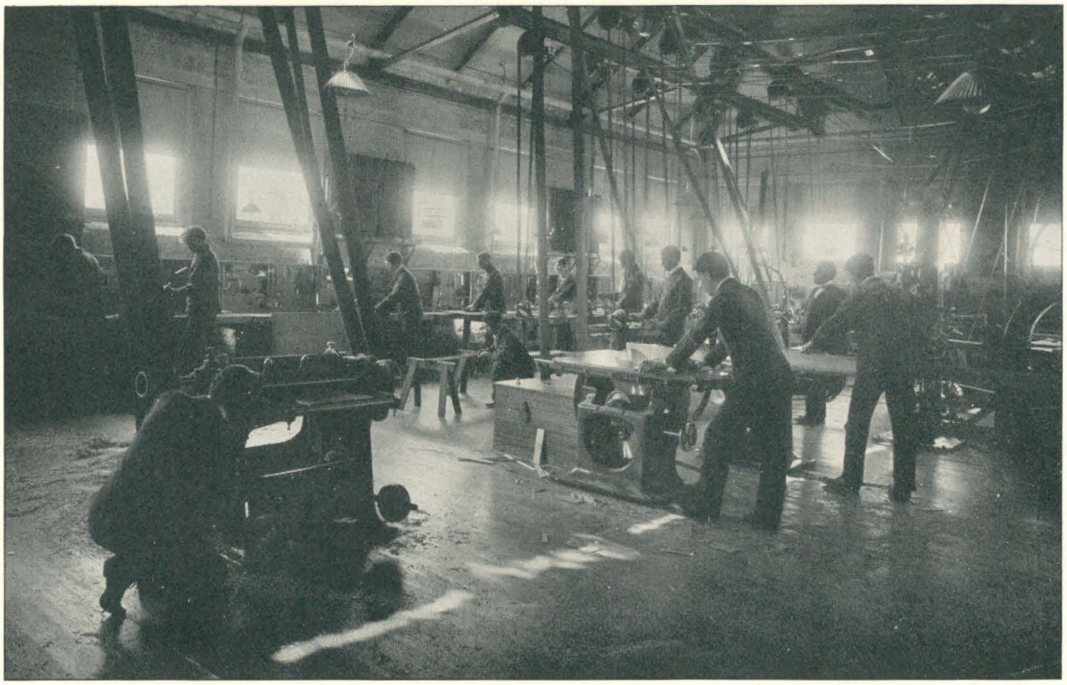
On the fourth floor of Bradley Hall is a large room in the shape of the letter T which will accomodate three classes at one time. One end of this room is provided with portable screens, drawing-board easels, drawing board cases, pedestals, models, objects for still life groups, photographs, and a choice collection of casts for work in freehand drawing. Each of the other two sections of the room are furnished with drawing stands, instrument lockers, and drawing board cases, for Mechanical Drawing, Descriptive Geometry, Architecural Drawing and Machine Drawing. Each pupil pursuing a course in any one of these subjects receives a key to a locker that contains a set of instruments of which he is to have the exclusive use while he is a member of the class.

WOODCARVING ROOM

The students of the first year class do a little work in woodcarving in connection with the course in general woodworking. For this work no special benches are provided. All advanced work, however, is done in the Tower Room on the fourth floor of Bradley Hall, one end of which is fitted up with carving benches and a variety of carving tools. In this location the casts, photographs, and reference books used in freehand drawing and designing are easily accessible to students in woodcarving.

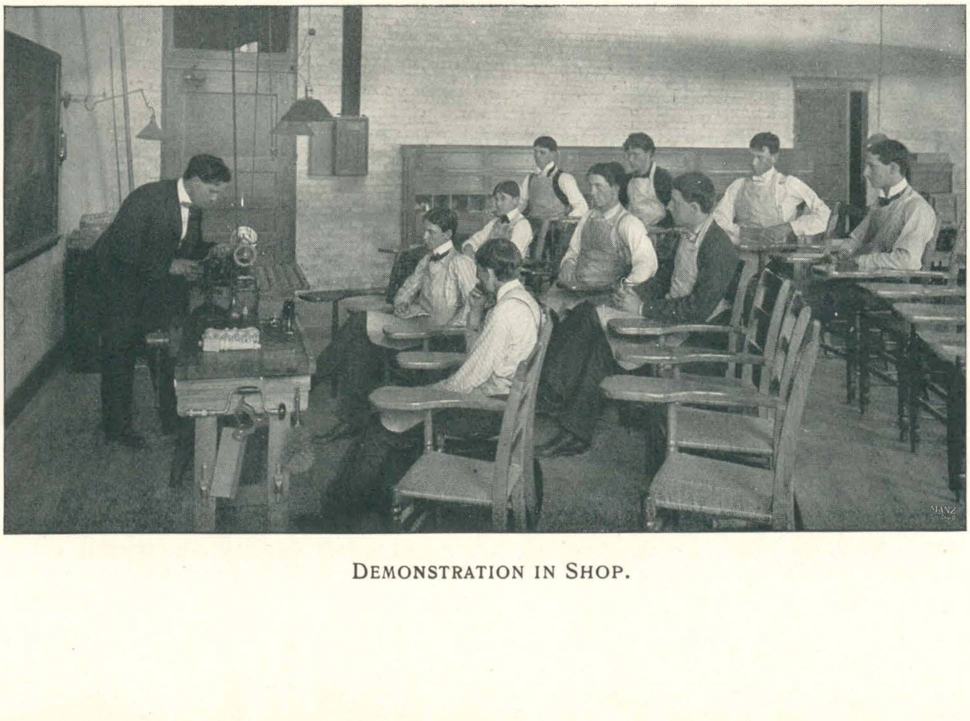
WOODWORKING ROOM

All boys in the first year class do their manual training work in the Woodworking room. This contains twenty-five benches, twenty-five sets of bench tools, twenty-five Reed lathes, twenty-five sets of woodturning tools, and twenty-five small sets of woodcarving tools. The power is furnished by a Commercial electric motor.

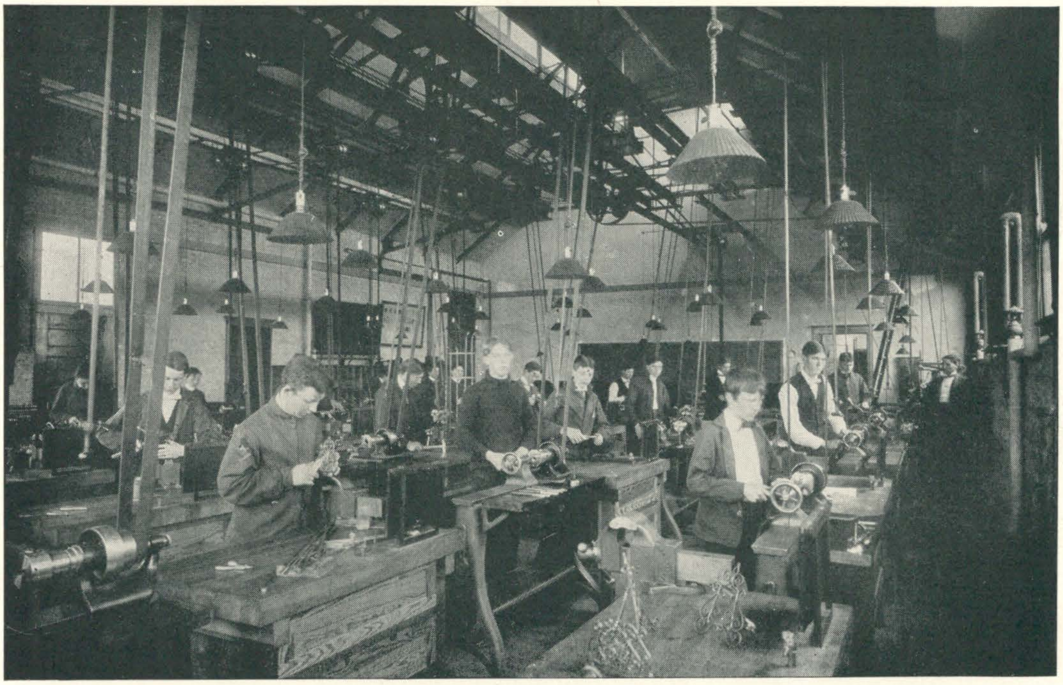


PATTERN SHOP.

The equipment of this shop has been designed especially for classes in Pattern Making and Cabinet Making. It includes twenty-five benches, each provided with a set of hand tools and Tole's Quick Action Vise, ten small Van Dervoort Lathes, a Robbin's Pattern Lathe, Fay Planer, Fay Joiner, Fay Band Saw, Fay Jig Saw, Fay Mortiser with Boring Attachment, and an American Manufacturing Co. Universal Trimmer. An electric motor manufactured by the General Electric Co. furnishes the power.



DEMONSTRATION IN SHOP.



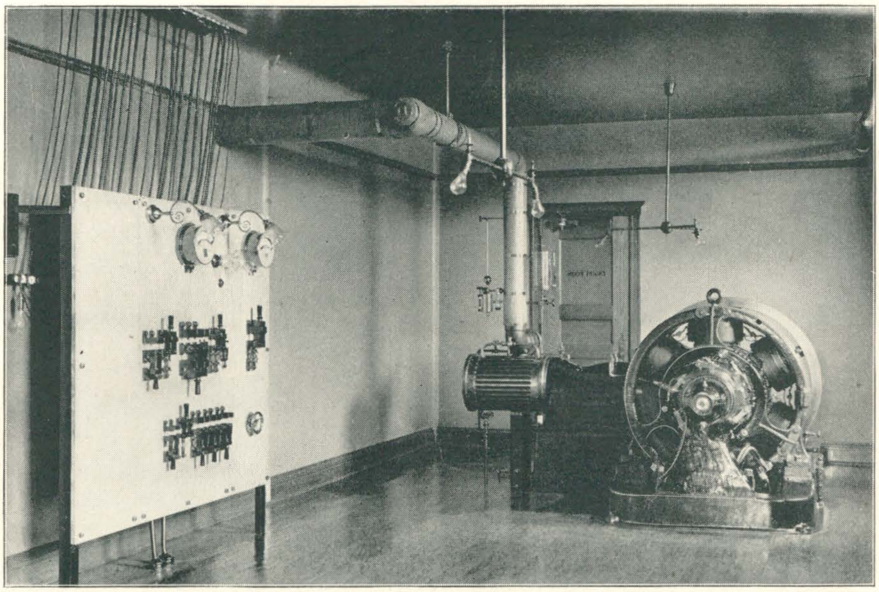
Metalworking Room.

In this shop the boys of the second year class receive instruction in metalworking. This instruction covers a variety of hand-tool work in cold metals such as chipping and filing cast iron, wrought iron, steel and brass, metal turning, metal spinning, bent iron work, and sheet-metal working. The equipment consists of a hand-lathe and a bench with a set of tools for each pupil. In the room are also several machines for general use. Power is furnished from a Westinghouse electric motor.

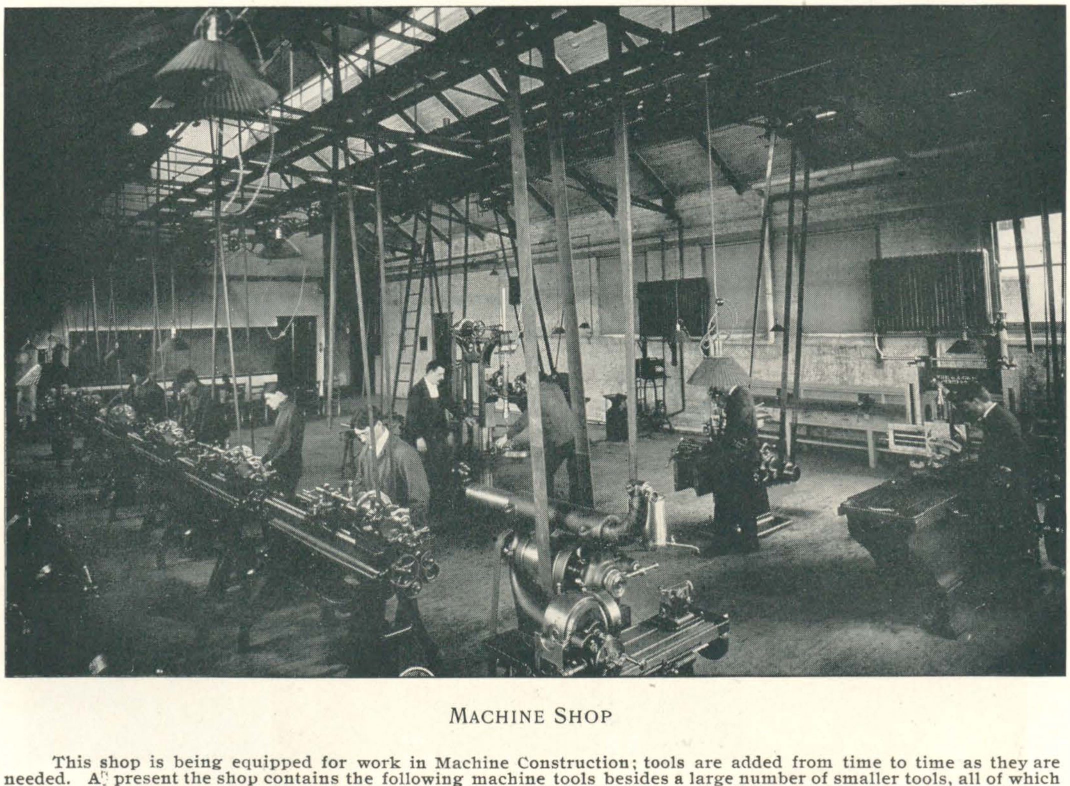
Electrical Construction.

The equipment for work in electrical construction may be summarized thus: (a) Primary Batteries—Daniell, Fuller, Bichromate, Leclanche, copper oxide, dry cells, etc.; (b) Storage Batteries—20 cells of chloride; (c) Bell work, Electric Lighting and Telephone work—bell and telephone systems in the Institute buildings, wireman's belt of tools for each student; (d) Dynamos and Motors—one generator and five motors used in Institute buildings, voltmeters, ammeters, etc.

All the power used for lights and motors in the Institute buildings is supplied by a Crocker-Wheeler Dynamo directly connected to a Ball & Wood engine. This engine and the boilers, pumps, etc., in the adjoining room are also used for purposes of experiment by the class in "Steam and the Steam Engine."

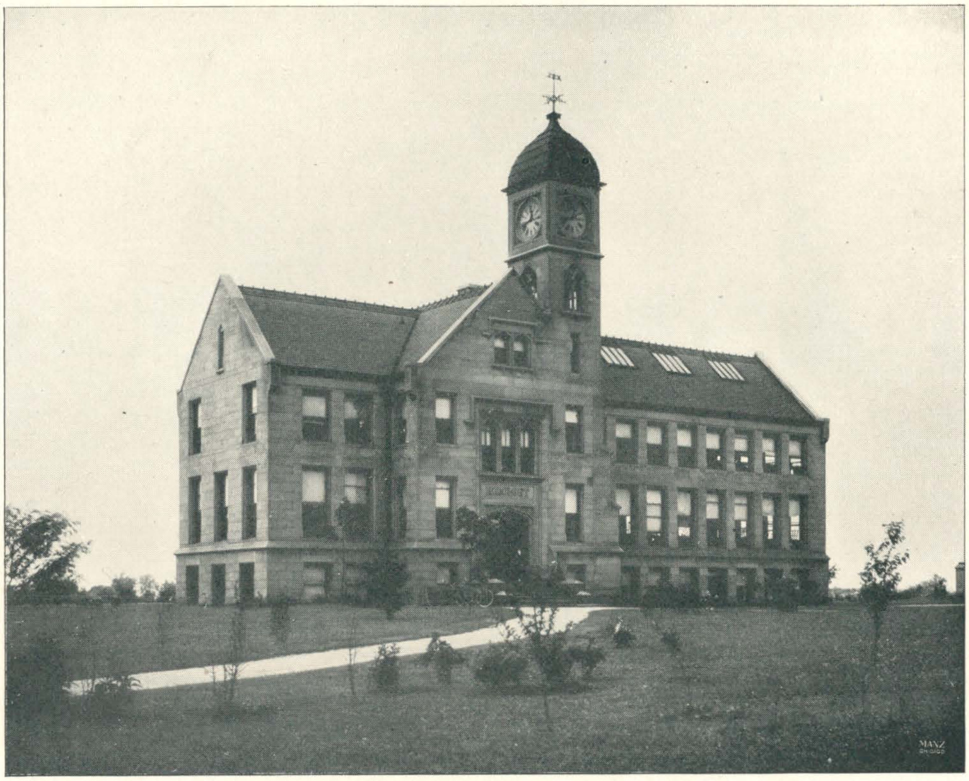


ENGINE ROOM



MACHINE SHOP

This shop is being equipped for work in Machine Construction; tools are added from time to time as they are needed. At present the shop contains the following machine tools besides a large number of smaller tools, all of which are of the latest design: Five Reed Engine Lathes, Brown & Sharpe Universal Milling Machine, Gray Planer, Walcott Shaper. Prentice Upright Drill, Slate Sensitive Drill, Walker Universal Tool Grinder, Brown & Sharpe Hand Lathe, Stover Power Hack Saw, and a Gas Forge. The power for the shop is furnished by a Western Electric Motor.

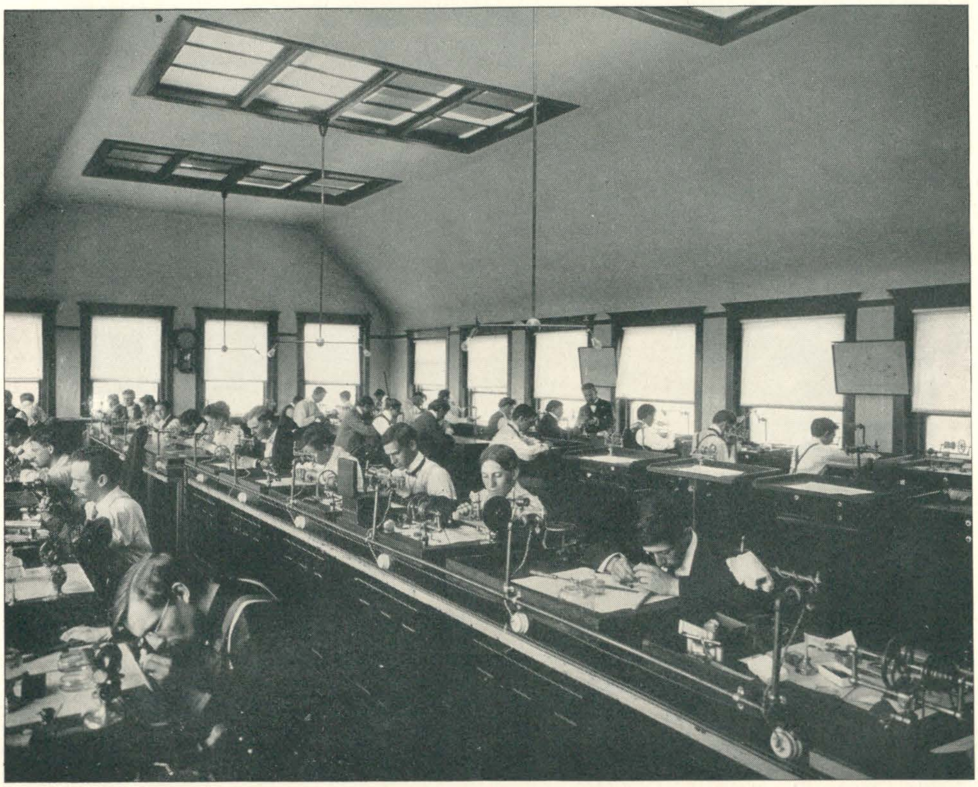


Horology Hall.

One of the most interesting features of Bradley Institute is its School for Watchmakers. Here are taught Watchmaking, Jewelry, Engraving, Optics — everything that pertains to the work of the "Jeweler's Store."

In the Material Room are kept, for the use of students, all tools and material which they need in all branches of the work.

Material Room—Horology Hall

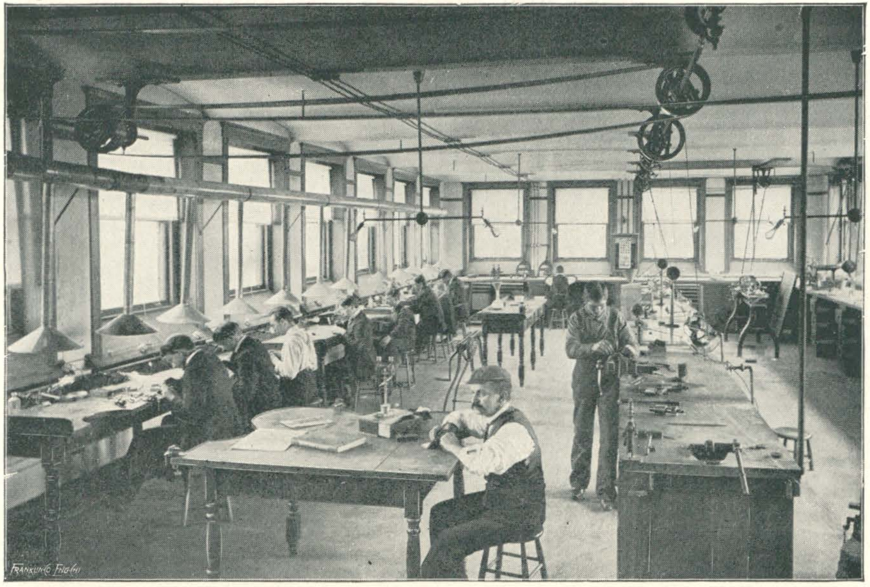


FINISHING AND ENGRAVING ROOM—HOROLOGY HALL

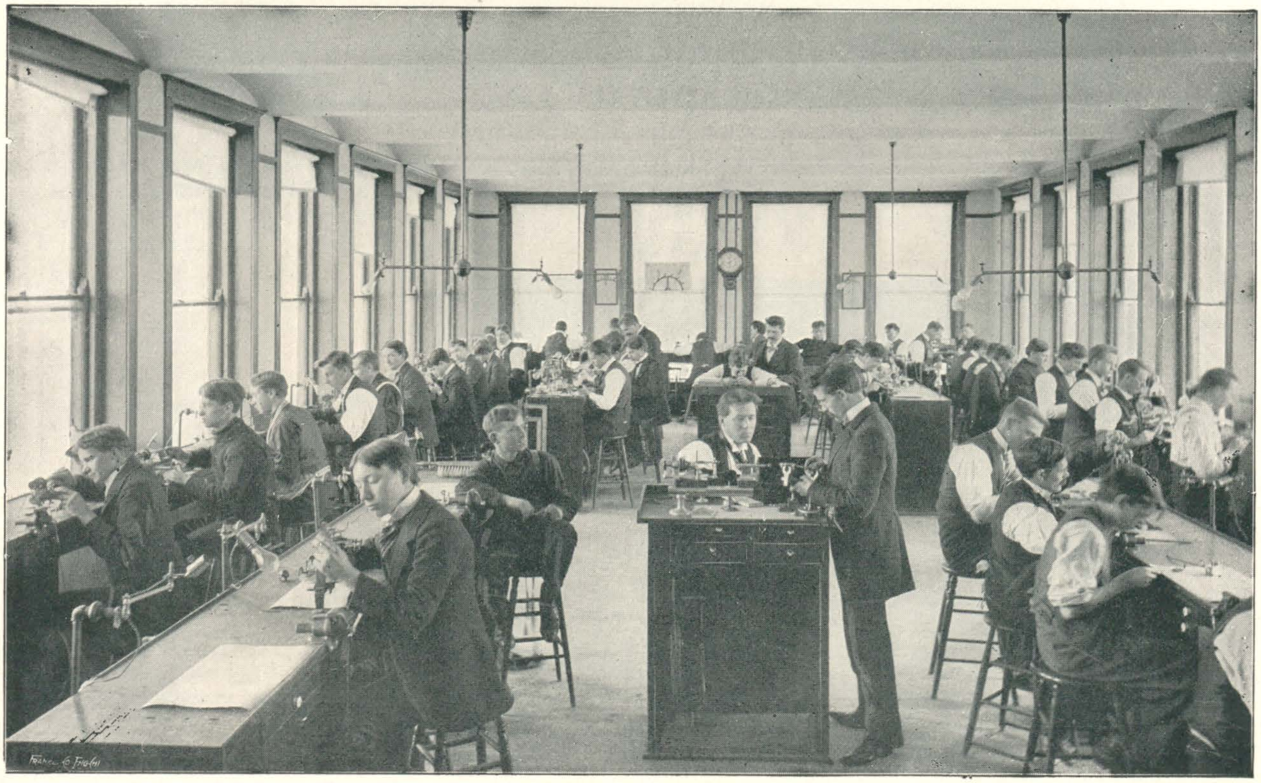
Besides the Clock Room shown on the following page, there are three shops of size and form like the accompanying cut, namely, the Jewelry Room, the Filing and Turning Room, and the Finishing Room.

LECTURE ROOM—HOROLOGY HALL

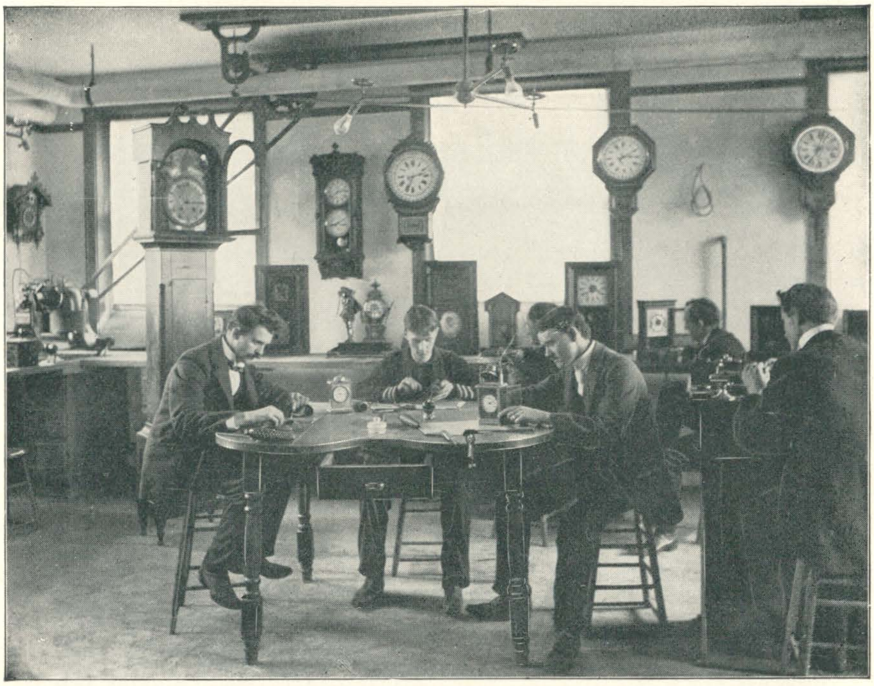
Although most of the student's time is spent in actual work at the bench, yet handwork is supplemented by lectures, often illustrated by stereopticon views — the school believes in training the brain as well as the fingers.



JEWELRY ROOM



A B C ROOM—HOROLOGY HALL



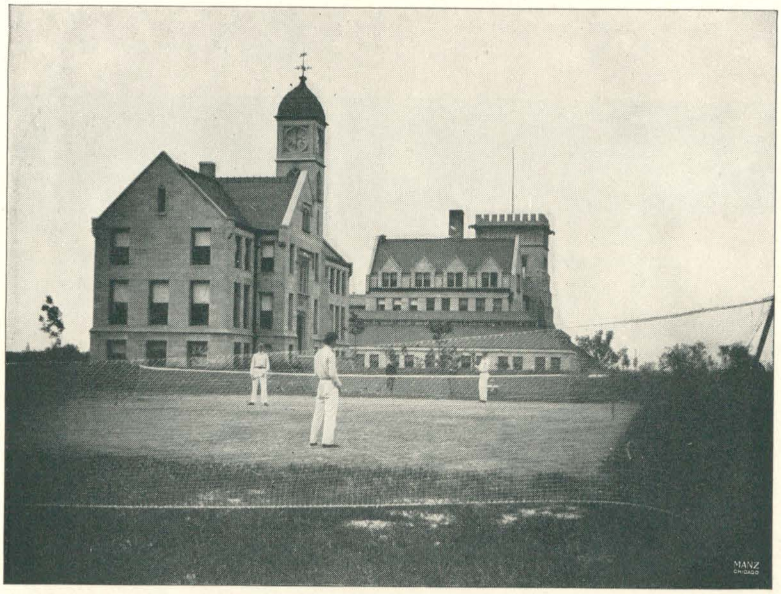
CLOCK ROOM—HOROLOGY HALL

OFFICE—HOROLOGY HALL.

ATHLETIC BOARD.

The Department of Athletics is under the direct charge of a Board of Control, having as its Chairman the Director of the Institute. The other members of the Board are seven in number, two from the Faculty of the School of Arts and Sciences, one from the Horological Faculty, and four students, elected as representatives from the College, Higher Academy, Lower Academy and Horological department.

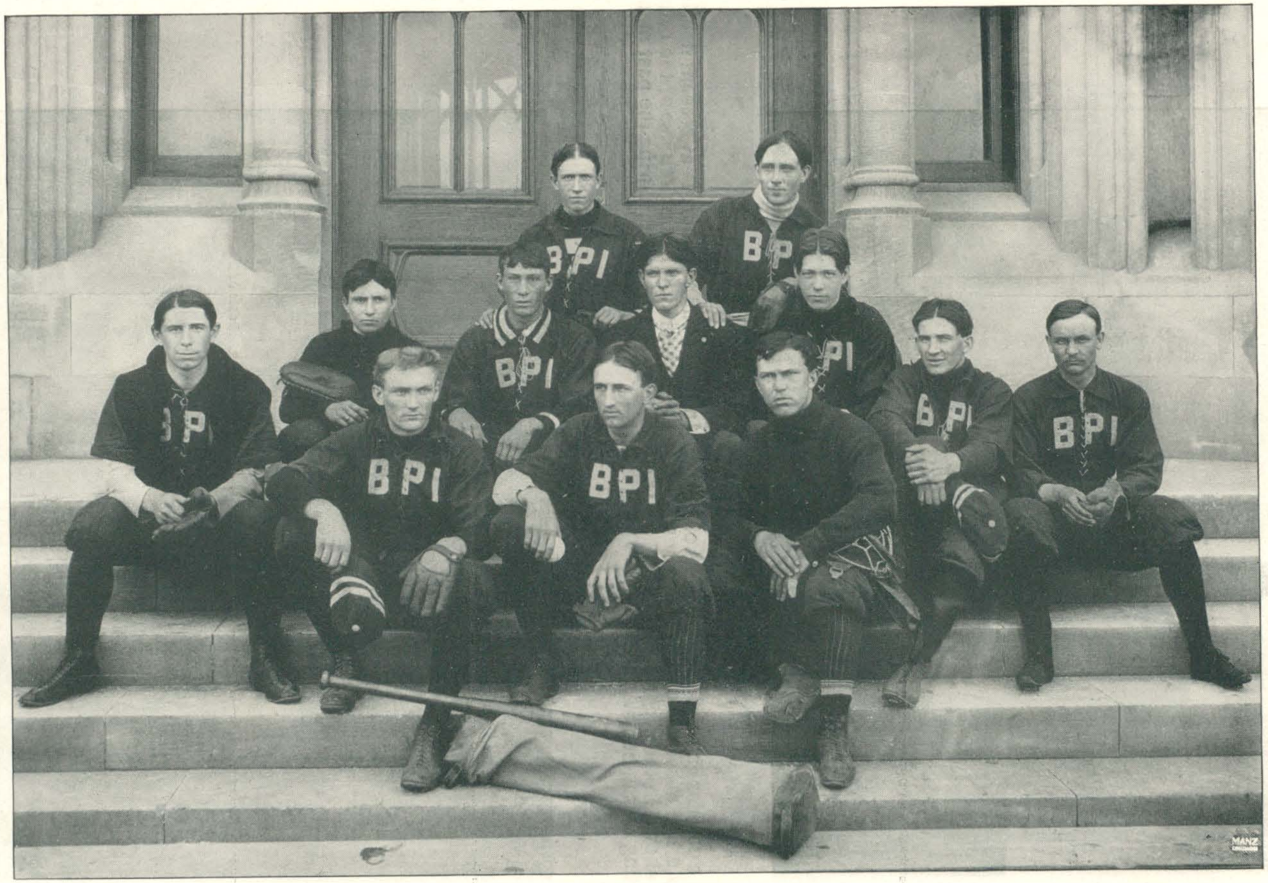
The Board elects all team managers, and gives to athletics a conscientious and efficient government. Undoubtedly the idea of a Board of Control is the model idea for the management of colleg athletics.



TENNIS COURT

Tennis is a popular game with the students of Bradley Institute, and the sport is at present flourishing. There is a live association of over twenty members, this association having the use of the beautiful clay court shown in the accompanying cut. This court has been the scene, during the past month, of two interesting tournaments.

FOOT BALL TEAM, 1898



BROWN O'REAR
MC CLYMENT HARRIS KANNE LYON, MANAGER PAGE PORTER, CAPT MOORE
FULLER MILLER SCHAEFER

BRADLEY INSTITUTE BASE BALL TEAM, 1899—COLLEGE CHAMPIONS OF CENTRAL ILLINOIS

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